



NTSB National Transportation Safety Board

Office of Aviation Safety

Operations

Captain Dave Kirchgessner



Operational Factors

- Flight crew performance
- FedEx actions after accident

Flight Crew Performance

- No flare, left crab, right of centerline
- Landing inconsistent with training
- Crosswind landing techniques and flare were trained and practiced

Flight Crew Performance

- Crosswinds within airplane / flight crew's capabilities
- FedEx flight training adequate

Flight Crew Performance

- Operational factors
 - Fatigue
 - FAA pilot certification
 - FAA medical certification
 - Wind conditions
 - MD-11 / MD-10 differences

Flight Crew Performance

First Officer's History

- Previous employer (1994)
 - Two proficiency checkride failures
 - FAA reexamination

Flight Crew Performance

First Officer's History

- Hired by FedEx in 1996
- MD-11 type rating in 1998
- Two unsatisfactory proficiency checkrides
- No deficiencies directly related to performance on day of accident

Flight Crew Performance

Check Airman's Performance

- Check airman and pilot-in-command
- Responsibilities
 - Monitor First Officer's performance
 - Ensure safe conduct of the flight

Flight Crew Performance

Check Airman's Performance

- MD-11 simulator
- Replicated FDR data
- Cockpit observations
 - Flight control inputs
 - Left crab
 - Drift
 - No flare

Flight Crew Performance

Check Airman's Performance

- Possible corrective actions
 - Verbal instruction
 - Command a go around
 - Take over flight controls
- No corrective actions taken

FedEx Actions

- Enhanced Oversight Program
 - Pilots requiring additional training
 - Pilots with unsatisfactory checkrides
 - Monitored for at least 1 year
 - Receive additional line checks

FedEx Actions

- Monthly pilot reviews
- Database
- Vice President of Flight Operations involvement
- Address and correct deficiencies

Summary

- Poorly executed landing techniques
- First Officer performance deficiencies
- Captain's inactions
- Enhanced Oversight Program

SUMMARY

Programs that assess flight
crewmember deficiencies are
beneficial



NTSB